

Kitty Hawk, North Carolina: the lowest temperature that has been recorded since the establishment of this station occurred on the morning of the 5th, the thermometer registering 5° 4.

Buffalo, New York: the minimum thermometer recorded 12° 1 below zero on the morning of the 5th; it was the coldest day of the season.

Nashville, Tennessee: on the morning of the 5th a minimum temperature of -6° 6 was recorded, it being the lowest ever observed at this station in February. Mr. E. D. Hicks, who resides thirteen miles southwest of this city, reported a temperature of -13° 0, his thermometer being perfectly accurate.

Cedar Keys, Florida: on the morning of the 5th the temperature fell to 26° 5, which was very low for this season of the year in this state; ice formed one-quarter of an inch thick on the salt water bayous; some damage was reported to early vegetation.

Table of comparative maximum and minimum temperatures for February.

| State or Territory. | Station. | For 1886. | | Since establishment of station. | | | |
|----------------------|------------------|-----------|-------|---------------------------------|------------------------|-------|---------------|
| | | Max. | Min. | Max. | Year. | Min. | Year. |
| Alabama | Mobile | 70.7 | 19.3 | 78.0 | 1883 | 27.6 | 1885 |
| Do | Montgomery | 73.0 | 14.4 | 81.2 | 1883 | 15.5 | 1885 |
| Arizona | Prescott | 70.4 | 18.6 | 80.0 | 1879 | 11.0 | 1880 |
| Do | Fort Apache | 71.0 | 14.5 | 74.0 | 1881 | 9.0 | 1880 |
| Arkansas | Fort Smith | 69.0 | 1.9 | 78.4 | 1883 | 1.0 | 1885 |
| Do | Little Rock | 72.8 | 7.6 | 77.0 | 1882 | 10.0 | 1885 |
| California | San Francisco | 71.0 | 41.0 | 71.0 | 1884 | 35.0 | 1883, 1884 |
| Do | San Diego | 80.3 | 44.2 | 82.6 | 1883 | 35.0 | 1880 |
| Colorado | Denver | 71.0 | 2.9 | 72.0 | 1879 | 22.0 | 1883 |
| Do | Pike's Peak | 26.6 | -19.3 | 29.0 | 1876 | -37.0 | 1875 |
| Connecticut | New Haven | 51.2 | -7.7 | 65.0 | 1880 | -3.0 | 1874 |
| Do | New London | 50.5 | -4.2 | 62.0 | 1880 | -6.0 | 1871 |
| Dakota | Fort Buford | 51.2 | -20.0 | 57.0 | 1882 | -40.0 | 1883, 1884 |
| Do | Yankton | 65.6 | -24.8 | 68.0 | 1876 | -23.1 | 1884 |
| Delaware | Cape Henlopen | 44.6 | 15.1 | | | | |
| Do | Del. Breakwater | | | 66.0 | 1880 | 7.0 | 1881 |
| District of Columbia | Washington City | 67.5 | -2.3 | 78.0 | 1874 | -1.5 | 1875 |
| Florida | Jacksonville | 72.6 | 24.3 | 83.0 | 1876, 1883 | 32.0 | 1875, 1878 |
| Do | Key West | 62.3 | 52.3 | 87.0 | 1874 | 55.0 | '72, '77, '78 |
| Georgia | Atlanta | 65.3 | 8.4 | 74.5 | 1883 | 8.0 | 1885 |
| Do | Savannah | 70.3 | 19.0 | 80.0 | '76, '80, '83 | 22.5 | 1885 |
| Idaho | Boise City | | | 64.0 | 1879 | -8.5 | 1884 |
| Do | Lewiston | | | 63.0 | 1881 | -17.8 | 1884 |
| Illinois | Chicgo | 60.2 | -2.6 | 74.0 | 1883 | -0.6 | 1885 |
| Do | Chicago | 55.6 | -6.3 | 63.0 | 1876, 1880 | -13.7 | 1885 |
| Indiana | Indianapolis | 54.5 | -4.2 | 72.0 | 1883 | -9.0 | 1885 |
| Indian Territory | Fort Sill | 75.0 | 5.0 | 79.0 | 1879, 1880 | 6.0 | 1885 |
| Iowa | Dubuque | 48.0 | -21.2 | 67.2 | 1882 | -31.0 | 1875 |
| Do | Keokuk | 56.3 | -17.7 | 68.0 | 1876 | -14.5 | 1885 |
| Kansas | Dodge City | 66.0 | -2.4 | 78.0 | 1876 | -20.0 | 1883 |
| Do | Leavenworth | 61.5 | -10.0 | 73.0 | 1876 | -16.2 | 1885 |
| Kentucky | Louisville | 61.0 | -0.2 | 77.5 | 1883 | -1.3 | 1885 |
| Louisiana | New Orleans | 74.0 | 25.0 | 80.0 | 1883 | 30.0 | 1885 |
| Do | Shreveport | 77.2 | 19.8 | 80.5 | 1876 | 14.6 | 1885 |
| Maine | Eastport | 48.6 | -14.0 | 47.0 | 1874, 1878 | -20.0 | 1876 |
| Do | Portland | 51.5 | -10.2 | 58.0 | 1880 | -7.0 | 1874, 1875 |
| Maryland | Baltimore | 66.9 | -1.1 | 78.0 | 1874 | -2.0 | 1873 |
| Massachusetts | Boston | 57.3 | -6.6 | 64.0 | 1880 | -6.5 | 1876 |
| Michigan | Detroit | 54.1 | -2.6 | 64.3 | 1884 | -20.0 | 1875 |
| Do | Marquette | 50.5 | -14.4 | 69.0 | 1877 | -27.0 | 1875 |
| Minnesota | Duluth | 55.4 | -25.0 | 57.0 | 1877 | -32.3 | 1885 |
| Do | Saint Paul | 49.0 | -28.1 | 59.0 | 1880 | -32.0 | 1875 |
| Mississippi | Vicksburg | 74.9 | 16.0 | 83.1 | 1883 | 17.2 | 1885 |
| Missouri | Saint Louis | 63.6 | -7.9 | 73.2 | 1882 | -5.5 | 1885 |
| Montana | Fort Benton | 69.1 | -11.0 | 62.0 | 1882 | -41.0 | 1883 |
| Do | Helena | 62.1 | -12.6 | 60.0 | 1881 | -32.0 | 1883 |
| Nebraska | North Platte | 61.0 | 5.0 | 68.3 | 1882 | -29.0 | 1883 |
| Do | Omaha | 64.3 | -19.4 | 66.0 | 1880 | -24.9 | 1883 |
| Nevada | Winnemucca | 67.3 | 11.0 | 69.0 | 1879 | -17.0 | 1882 |
| New Hampshire | Mount Washington | 41.0 | -39.2 | 43.0 | 1883 | -42.0 | 1876 |
| New Jersey | Atlantic City | 50.3 | -2.3 | 71.0 | 1880 | -5.0 | 1875 |
| Do | Sandy Hook | 53.5 | -2.2 | 71.0 | 1874 | -1.5 | 1885 |
| New Mexico | Santa Fé | 56.0 | 9.0 | 75.0 | 1879 | -3.0 | 1875, 1880 |
| New York | Buffalo | 55.8 | -12.1 | 63.8 | 1883 | -13.0 | 1875 |
| Do | New York City | 55.8 | -1.8 | 69.0 | 1874 | -4.0 | 1873 |
| North Carolina | Charlotte | 68.0 | 5.9 | 76.5 | 1883 | 12.0 | 1885 |
| Do | Wilmington | | | 81.0 | 1884 | 15.0 | 1875 |
| Ohio | Cincinnati | 62.9 | -0.8 | 73.0 | 1883 | 9.6 | 1885 |
| Do | Toledo | 58.2 | 8.1 | 65.0 | 1883 | -15.5 | 1885 |
| Oregon | Portland | 65.0 | 31.0 | 64.7 | 1882 | 7.0 | 1883 |
| Do | Roseburg | 72.1 | 30.9 | 68.7 | 1883 | 9.4 | 1883 |
| Pennsylvania | Philadelphia | 65.6 | -2.4 | 75.0 | 1874 | -1.0 | 1875, 1881 |
| Do | Pittsburg | 62.7 | -3.0 | 76.5 | 1882 | -10.0 | 1875 |
| Rhode Island | Block Island | 52.0 | -1.0 | | | | |
| Do | Newport | | | 56.0 | 1880 | -2.0 | 1881 |
| South Carolina | Charleston | 72.3 | 13.3 | 78.0 | 1876, 1880, 1882, 1883 | 22.0 | 1885 |
| Tennessee | Knoxville | 66.0 | -4.1 | 79.0 | 1871 | 1.0 | 1885 |
| Do | Nashville | 61.5 | -6.6 | 77.4 | 1883 | -0.8 | 1885 |
| Texas | Fort Davis | 76.3 | 18.0 | 79.0 | 1879 | 9.0 | 1883 |
| Do | Galveston | 71.0 | -31.6 | 75.0 | 1882, 1884 | 23.0 | 1885 |
| Utah | Salt Lake City | 63.2 | 19.8 | 68.0 | 1879 | 0.0 | 1885 |
| Virginia | Lynchburg | 65.2 | 1.3 | 75.0 | 1874 | 3.0 | 1875 |
| Do | Norfolk | 70.8 | 3.5 | 81.0 | 1871 | 9.0 | 1875 |
| Washington Ter. | Dayton | | | 60.0 | 1875 | -24.0 | 1883 |
| Do | Olympia | 61.0 | 25.8 | 59.1 | 1884 | 2.0 | 1884 |
| Wisconsin | La Crosse | 52.0 | -23.0 | 65.0 | 1882 | -31.0 | 1875 |
| Do | Milwaukee | 43.9 | -15.6 | 60.0 | 1882 | -23.6 | 1885 |
| Wyoming | Cheyenne | 63.2 | 9.2 | 59.0 | '79, '80, '81 | -28.2 | 1884 |

FROSTS.

Frosts occurred in the various districts on the following dates:

New England.—1st to 28th.

Middle Atlantic states.—1st to 28th.

South Atlantic states.—1st to 10th, 13th to 28th.

Florida.—Sanford, 6th, 14th; Cedar Keys, 5th, 6th; Archer, 2d, 6th to 9th, 13th, 14th; Limona, 5th, 6th, 13th.

East Gulf states.—1st, 2d, 4th to 8th, 12th, 13th, 16th, 17th, 18th, 20th to 23d, 26th.

West Gulf states.—1st to 5th, 7th, 8th, 10th to 13th, 16th, 17th, 18th, 20th, 21st, 22d, 26th.

Tennessee.—1st to 9th, 13th, 15th to 22d, 24th, 26th, 27th.

Ohio Valley.—1st to 11th, 13th to 28th.

Lower lake region.—1st to 28th.

Upper lake region.—1st to 28th.

Extreme northwest.—1st to 28th.

Upper Mississippi valley.—1st to 28th.

Missouri Valley.—1st to 28th.

Northern slope.—1st to 28th.

Middle slope.—1st to 28th.

Southern slope.—1st to 8th, 10th, 11th, 12th, 14th to 28th.

Southern plateau.—1st to 21st, 23d, 25th.

Middle plateau.—1st to 28th.

Northern plateau.—3d, 4th, 6th to 9th, 13th to 21st, 24th, 26th, 27th, 28th.

North Pacific coast region.—1st, 7th, 8th, 14th, 17th to 22d, 24th to 28th.

Middle Pacific coast region.—1st to 22d, 27th, 28th.

South Pacific coast region.—Murietta, California, 5th.

ICE.

Ice formed in the southern part of the country, as follows:

Alabama.—Greensborough, 4th, 5th, 6th, 16th, 20th; Birmingham, 4th, 5th, 6th.

Arkansas.—Little Rock, 3d to 6th, 15th, 17th, 20th.

Florida.—Cedar Keys, 5th; Pensacola, 4th, 5th.

Georgia.—Athens, 1st to 8th, 16th to 21st, 27th; Quitman, 5th, 6th, ice formed on eleven nights, and as late as the 27th.

Louisiana.—New Orleans, 4th, 5th, 6th.

North Carolina.—Fort Macon, 4th, 5th, 6th; Hatteras, 6th; Wash Woods, 3d; Kitty Hawk, 5th.

Texas.—Galveston, 4th.

PRECIPITATION.

[Expressed in inches and hundredths.]

In the following table are shown, for the several geographical districts, the normal February precipitation for a series of years; the average for February, 1886, and the excess or deficiency as compared with the normal:

Average precipitation for February.

| Districts. | Average for February, Signal-Service observations. | | Comparison of Feb., 1886, with the average for several years. |
|-----------------------------|--|-----------|---|
| | For several years. | For 1886. | |
| | Inches. | Inches. | Inches. |
| New England | 4.07 | 7.48 | +3.41 |
| Middle Atlantic States | 3.70 | 4.76 | +1.06 |
| South Atlantic States | 3.98 | 2.35 | -1.63 |
| Florida Peninsula | 3.00 | 1.09 | -1.91 |
| Eastern Gulf States | 4.94 | 2.88 | -2.06 |
| Western Gulf States | 4.21 | 3.45 | -0.76 |
| Rio Grande Valley | 1.42 | 2.02 | +0.60 |
| Tennessee | 5.24 | 4.04 | -1.20 |
| Ohio Valley | 3.84 | 1.72 | -2.12 |
| Lower lake region | 2.62 | 2.14 | -0.48 |
| Upper lake region | 2.07 | 1.87 | -0.20 |
| Extreme northwest | 0.75 | 0.82 | +0.07 |
| Upper Mississippi Valley | 2.30 | 1.33 | -0.97 |
| Missouri Valley | 0.90 | 0.42 | -0.48 |
| Northern slope | 0.58 | 0.88 | +0.30 |
| Middle slope | 0.57 | 0.75 | +0.18 |
| Southern slope | 0.93 | 0.37 | -0.56 |
| Southern plateau | 1.34 | 1.20 | -0.14 |
| Middle plateau | 1.20 | 0.88 | -0.32 |
| North Pacific coast region | 7.12 | 3.60 | -3.52 |
| Middle Pacific coast region | 3.35 | 0.52 | -2.83 |
| South Pacific coast region | 2.26 | 1.00 | -1.26 |

The distribution of rainfall over the United States and Canada for February, 1886, as determined from reports from more than seven hundred stations, is exhibited on chart iii.

The precipitation for the month was below the normal in all districts, except in the northern slope, portions of the middle slope and the southern plateau, the Rio Grande Valley, and on the Atlantic coast north of Virginia, where it was above the normal. The excess in the districts named was slight, except on the New England and middle Atlantic coasts, where the departures were marked, especially from northern New Jersey to southern Maine. At Block Island, Rhode Island, the rainfall amounted to 14.05, and at New London, Connecticut, it was 11.98, the latter being the largest amount recorded in February since the establishment of that station, in 1871.

From the south Atlantic and Gulf states northward to British America, and in the districts on the Pacific coast, the precipitation for February, 1886, was below the normal. The deficiencies were decided on the Pacific coast and in the states south of the Ohio and east of the Mississippi rivers. In the middle Pacific coast region only about one-sixth of the average amount of rain fell; and in the north Pacific coast region about one-half of the average amount fell.

The following are some of the most marked departures from normal precipitation at Signal Service stations:

| Above normal. | | Below normal. | |
|----------------------------------|---------|-------------------------------------|---------|
| | Inches. | | Inches. |
| New London, Connecticut | 8.32 | Olympia, Washington Territory | 6.09 |
| Block Island, Rhode Island | 8.14 | Atlanta, Georgia | 4.20 |
| Boston, Massachusetts | 3.40 | Red Bluff, California | 3.88 |
| Sandy Hook, New Jersey | 2.93 | San Francisco, California | 3.64 |
| New York City | 2.35 | Fort Smith, Arkansas | 3.63 |
| Portland, Maine | 2.26 | Little Rock, Arkansas | 3.35 |
| Baltimore, Maryland | 2.12 | Sacramento, California | 3.12 |

SNOW.

Snow fell in the various districts during the month, as follows:

New England.—1st to 4th, 6th, 7th, 9th, 11th to 28th.
Middle Atlantic states.—1st to 7th, 11th, 12th, 13th, 15th, 16th, 19th to 28th.
South Atlantic states.—2d, 3d, 4th, 11th, 27th, 28th.
East Gulf states.—Atlanta, 27th.
West Gulf states.—Fort Smith, Arkansas, 1st, 2d; Palestine, Texas, 2d; Little Rock, Arkansas, 2d, 3d.
Tennessee.—1st to 4th, 6th, 8th, 12th to 15th, 27th.
Ohio Valley.—1st to 9th, 12th to 28th.
Lower lake region.—1st to 8th, 12th to 28th.
Upper lake region.—1st to 6th, 10th, 11th, 13th to 28th.
Extreme northwest.—1st, 2d, 3d, 8th, 18th, 20th, 22d, 24th to 28th.
Upper Mississippi valley.—1st to 4th, 9th to 21st, 24th, 25th, 27th, 28th.
Missouri Valley.—1st, 2d, 3d, 9th, 10th, 13th to 18th, 21st, 24th, 26th, 27th, 28th.
Northern slope.—1st to 4th, 6th, 9th, 10th, 12th to 19th, 23d, 24th, 26th; 27th, 28th.
Middle slope.—1st, 2d, 3d, 8th, 9th, 10th, 13th to 16th, 24th to 28th.
Southern slope.—Puerto de Luna, New Mexico, 1st, 26th; Fort Sill, Indian Territory, 2d; Abilene, Texas, 3d; Fort Wingate, New Mexico, 25th to 28th; Fort Bayard, New Mexico, 26th, 27th.
Southern plateau.—Santa Fé, New Mexico, 1st, 2d, 27th; Prescott, Arizona, 27th, 28th.
Middle plateau.—1st, 2d, 8th, 9th, 10th, 14th, 15th, 26th, 27th, 28th.
Northern plateau.—2d, 8th, 9th, 12th, 13th, 26th, 27th, 28th.
North Pacific coast region.—Pysht, Washington Territory, 13th.
 Snow storms of unusual severity were reported, as follows:
 Lead Hill, Boone county, Arkansas: seventeen inches of snow fell on the 3d, which is the heaviest snowfall since the

winter of 1855-'56; all work and travel were completely suspended.

Lake City, Hinsdale county, Colorado: the worst snow storm ever experienced in this vicinity occurred on the 1st-2d; the roof of the Lake City Armory caved in from the weight of snow, causing considerable loss; miners were compelled to leave the mines, for fear of snow slides.

Memphis, Tennessee: the heavy snow of the 2-3d caused a general suspension of business; trains and mails were delayed, and street cars, drays, etc., were unable to move.

Cairo, Illinois: the heavy snow storm of the 2d caused the blockade of all the railroads running into this city.

Washington City: the heaviest snow storm for several years occurred on the 3d-4th.

Baltimore, Maryland: the heaviest snow storm for several years occurred on the 3-4th; the ground was covered to the depth of fifteen inches, causing considerable delay to all kinds of traffic.

Philadelphia, Pennsylvania: an unusually heavy snow storm occurred on the 3d; streets were almost impassable, and travel on many of the horse-car lines was suspended.

Vineland, Cumberland county, New Jersey: the severest snow storm for five years occurred on the 4th; railroads were blockaded and travel on the highways was rendered difficult.

Dennisport, Barnstable county, Massachusetts: the heaviest fall of snow known for a number of years occurred from the 3d to 5th; the snow was six feet deep in some places, and badly drifted; roads were almost impassable, and trains and mails greatly delayed.

Jackson, Hinds county, Mississippi: a heavy snow storm occurred on the 2-3d, which extended south as far as Grenada, Mississippi; all trains on the Illinois Central Railway were delayed, and communication with the north greatly interrupted.

The following is from the New York "Herald" of February 5, 1886:

PARSONS, KANSAS, February 4.—The late fall of snow was much the heaviest ever known in this country. In Indian Territory it is said to be much heavier than here, having fallen there to the depth of two feet on a level. Passenger trains from the South have been badly delayed. Reports from western Kansas indicate great suffering and heavy losses. The farmers in this vicinity have experienced considerable loss of stock, principally hogs and sheep. Wagon roads are completely blockaded.

Buffalo, New York: the heavy snow storm of the 15th greatly delayed railroad traffic.

Augusta, Kennebec county, Maine: the heavy snow storm from the 25th to 27th caused the blockade of railroads; drifts from three to ten feet deep obstructed the highways; traffic and travel were greatly interfered with.

Bath, Sagadahoc county, Maine: the severe northeast snow storm of the 26-27th blockaded all railroads leading into the city.

Waterville, Kennebec county, Maine: the worst drifting snow storm in this part of the country for the past twenty-five years occurred on the 27th.

Bangor, Penobscot county, Maine: from eighteen to twenty-four inches of snow fell on the 26-27th; streets outside of the centre of the city were impassable, and railroad trains were blockaded.

Richmond, Sagadahoc county, Maine: the worst snow storm for years occurred from the 25th to 27th; a heavy gale prevailed which caused the snow to drift badly, filling cuts, blockading trains, and greatly interfering with traffic.

Winthrop, Kennebec county, Maine: a heavy snow storm began on the morning of the 25th and continued throughout the 26th and 27th; the high wind piled the snow in huge drifts, impeding travel.

Portland, Maine: a northwest gale, with heavy snow, occurred on the 26-27th; reports from surrounding towns state that it was the worst storm that has been experienced for years; trains were blockaded and several accidents occurred.

DEVIATIONS FROM AVERAGE PRECIPITATION.

The following table shows, for certain stations, as reported by voluntary observers, the average precipitation for the month of February for a series of years; the precipitation for February, 1886; and the departures from the average:

| Station. | County. | Average pre- cipitation for Feb. | Number of years. | Precipitation for Febru- ary, 1886. | Departure. |
|--------------------------|------------------|--|---------------------|---|------------|
| | | Inches. | | Inches. | Inches. |
| Arkansas. | | | | | |
| Lead Hill..... | Boone..... | 7.39 | 4 | 2.61 | - 4.78 |
| California. | | | | | |
| Sacramento..... | Sacramento..... | 2.70 | 12 | 0.35 | - 2.35 |
| Connecticut. | | | | | |
| Hartford..... | Hartford..... | 3.58 | 14 | 6.16 | + 2.58 |
| Middletown *..... | Middlesex..... | 4.03 | 28 | 7.43 | + 3.40 |
| Wallingford *..... | New Haven..... | 4.25 | 26 | 8.77 | + 4.52 |
| Dakota. | | | | | |
| Webster..... | Day..... | 3.21 | 3 | 1.93 | - 1.28 |
| Illinois. | | | | | |
| Anna..... | Union..... | 3.92 | 11 | 2.38 | - 1.54 |
| Mattoon..... | Coles..... | 3.94 | 6 | 0.25 | - 2.69 |
| Peoria..... | Peoria..... | 2.04 | 30 | 1.86 | - 0.18 |
| Riley..... | McHenry..... | 1.66 | 23 | 1.61 | - 0.05 |
| Swanwick..... | Perry..... | 5.16 | 4 | 1.31 | - 3.85 |
| Sycamore..... | De Kalb..... | 2.64 | 4 | 1.85 | - 0.79 |
| Indiana. | | | | | |
| Lafayette..... | Tippecanoe..... | 4.12 | 7 | 1.32 | - 2.80 |
| Mauzy..... | Rush..... | 4.46 | 6 | 1.14 | - 3.32 |
| Spiceland..... | Henry..... | 2.91 | 26 | 1.01 | - 1.90 |
| Vevay..... | Switzerland..... | 2.93 | 21 | 1.51 | - 0.42 |
| Iowa. | | | | | |
| Cresco..... | Howard..... | 0.95 | 10 | 0.95 | 0.00 |
| Monticello..... | Jones..... | 1.89 | 32 | 1.31 | - 0.58 |
| Kansas. | | | | | |
| Independence..... | Montgomery..... | 2.22 | 14 | 1.48 | - 0.74 |
| Wellington..... | Sumner..... | 1.71 | 8 | 1.03 | - 0.68 |
| Yates Centre..... | Woodson..... | 2.09 | 6 | 1.62 | - 0.47 |
| Maine. | | | | | |
| Gardiner..... | Kennebec..... | 3.55 | 48 | 7.25 | + 3.70 |
| Orono *..... | Penobscot..... | 3.88 | 18 | 5.42 | + 1.54 |
| Maryland. | | | | | |
| Fallston..... | Harford..... | 3.87 | 15 | 5.96 | + 2.09 |
| Massachusetts. | | | | | |
| Amherst *..... | Hampshire..... | 3.12 | 51 | 4.36 | + 1.24 |
| Cambridge *..... | Middlesex..... | 3.57 | 45 | 7.82 | + 4.25 |
| Chestnut Hill *..... | Middlesex..... | 4.43 | 11 | 7.89 | + 3.46 |
| Framingham *..... | Middlesex..... | 4.06 | 12 | 6.28 | + 2.22 |
| Lake Cochituate *..... | Middlesex..... | 3.60 | 35 | 6.86 | + 3.26 |
| Lowell *..... | Middlesex..... | 2.88 | 60 | 6.26 | + 3.38 |
| Lynn *..... | Essex..... | 3.65 | 12 | 7.47 | + 3.82 |
| Mystic Lake *..... | Middlesex..... | 4.12 | 11 | 7.20 | + 3.08 |
| New Bedford *..... | Bristol..... | 3.80 | 73 | 7.05 | + 3.25 |
| Somerset..... | Bristol..... | 3.63 | 16 | 8.70 | + 5.07 |
| Springfield *..... | Hampden..... | 3.49 | 39 | 4.80 | + 1.31 |
| Waltham *..... | Middlesex..... | 2.67 | 57 | 7.84 | + 5.17 |
| Williamstown *..... | Berkshire..... | 2.50 | 21 | 2.61 | + 0.11 |
| Worcester..... | Worcester..... | 3.21 | 45 | 6.32 | + 3.11 |
| New Brunswick. | | | | | |
| Saint John *..... | Saint John..... | 4.70 | 26 | 6.08 | + 1.38 |
| New Hampshire. | | | | | |
| Concord *..... | Merrimac..... | 2.55 | 31 | 4.27 | + 1.72 |
| Hanover *..... | Grafton..... | 1.87 | 20 | 1.24 | - 0.63 |
| Nevada. | | | | | |
| Carson City..... | Ormsby..... | 1.17 | 7 | 0.28 | - 0.89 |
| New York. | | | | | |
| Factoryville..... | Tioga..... | 1.90 | 4 | 0.94 | - 0.96 |
| Palermo..... | Oswego..... | 2.25 | 33 | 2.36 | + 0.11 |
| Plattsburg Barracks..... | Clinton..... | 1.52 | 17 | 1.22 | - 0.30 |
| North Volney..... | Oswego..... | 2.69 | 14 | 2.25 | - 0.44 |
| Ohio. | | | | | |
| Wauseon..... | Fulton..... | 2.93 | 12 | 0.84 | - 2.09 |
| Pennsylvania. | | | | | |
| Dyberry..... | Wayne..... | 2.74 | 17 | 2.43 | - 0.31 |
| Rhode Island. | | | | | |
| Providence..... | Providence..... | 3.67 | 55 | 11.31 | + 7.64 |
| South Carolina. | | | | | |
| Kirkwood..... | Kershaw..... | 3.56 | 20 | 1.59 | - 1.97 |
| Stateburg..... | Sumpter..... | 2.27 | 5 | 1.46 | - 0.81 |
| Texas. | | | | | |
| New Ulm..... | Austin..... | 4.71 | 14 | 1.65 | - 3.06 |
| Vermont. | | | | | |
| Lunenburg *..... | Essex..... | 2.89 | 38 | 1.67 | - 1.22 |
| Newport *..... | Orleans..... | 2.73 | 11 | 3.23 | + 0.50 |
| Strafford *..... | Orange..... | 2.70 | 11 | 2.70 | 0.00 |
| Virginia. | | | | | |
| Bird's Nest..... | Northampton..... | 3.61 | 18 | 5.00 | + 1.39 |
| Dale Enterprise..... | Rockingham..... | 3.45 | 6 | 3.59 | + 0.14 |
| Variety Mills..... | Nelson..... | 3.54 | 7 | 4.02 | + 0.48 |
| Wytheville..... | Wythe..... | 3.33 | 21 | 1.53 | - 1.80 |
| West Virginia. | | | | | |
| Helvetia..... | Randolph..... | 4.36 | 10 | 2.71 | - 1.65 |

* From the "Bulletin of the New England Meteorological Society."

The following notes in connection with this subject are reported by voluntary observers:

Arkansas.—Lead Hill, Boone county: the total precipitation for the winter of 1885-'86, 7.36, is 8.09 below the average for the past four years.

Connecticut.—Hartford, Hartford county: the rainfall of the 11-13th amounted to 4.32, and was the heaviest precipitation in the past fourteen years.

Illinois.—Riley, McHenry county: the total precipitation for the winter

months of 1885-'86, 7.58, is 2.08 above the average for the past twenty-two winters.

Indiana.—Vevay, Switzerland county: the greatest precipitation that has occurred in any February for a period of twenty-one years was 10.23, in 1884, and the least, 0.40, in 1877. The total snowfall for February, 1886, 6.06, is 2.23 above the average; the greatest monthly snowfall in any one February that has occurred during the above period was 11.75, in 1867; no snow fell during February in 1877 and 1878.

Iowa.—Monticello, Jones county: the greatest monthly precipitation that has occurred in any February during a period of thirty-two years was 4.22, in 1857, and the least, 0.32, in 1877. The greatest February snowfall that occurred during this time was 15.80, in 1874, and the least, 0.25, in 1869, the normal being 7.84.

Kansas.—Yates Centre, Woodson county: the total precipitation for the winter months of 1885-'86, 4.34, is 0.26 below the average for the past six years.

Maine.—Cornish, York county: the total snowfall for February was 22.0; the largest February snowfall for a period of twenty-nine years, 42.0, occurred in 1882, and the least, 5.0, in 1875.

Maryland.—Fallston, Harford county: the greatest monthly precipitation for February for a period of fifteen years was 7.01, in 1884, and the least, 1.60, in 1872.

Massachusetts.—Worcester, Worcester county: the precipitation for February, 1886, was far above the mean; the total rainfall, including melted snow, was 6.32 against 3.49 during the same period last year, while the average for the forty-five preceding years is but 3.21. The snowfall during the month was 5.50 against 11.12 during the same period in 1884, while the mean for the forty-five preceding years is 11.91. The aggregate snowfall this winter was 36.83.

New York.—Palermo, Oswego county: the total snowfall for February, 1886, was 4.75, or 17.75 below the average for the thirty-three years; the greatest February snowfall that has occurred in this period was 61.0, in 1856, and the least, 1.0, in 1877; the snowfall for the winter months of 1885-'86, 43.0, is 18.0 below the average for the same number of years.

North Volney, Oswego county: the greatest monthly precipitation in any February for a period of fourteen years was 4.70, in 1876, and the least, 0.80, in 1877. The precipitation for the winter months of 1885-'86, 10.35, is 1.00 above the average; the greatest winter precipitation for this period was 18.95, in 1878-'79, and the least, 5.95, in 1876-'77.

Ohio.—Wauseon, Fulton county: the greatest monthly precipitation for February that has occurred in a period of twelve years was 6.81, in 1876, and the least, 0.12, in 1877. The snowfall for February, 1886, is just one-half the average.

Texas.—New Ulm, Austin county: the greatest precipitation that has occurred in any February during the past fourteen years was 10.94, in 1882, and the least, 1.06, in 1885.

Virginia.—Variety Mills, Nelson county: the greatest monthly precipitation that has occurred in February during the past seven years was 7.12, in 1884, and the least, 1.75, in 1879.

LARGEST MONTHLY SNOWFALLS.

[Expressed in inches and tenths.]

Monthly snowfalls of five inches or more were reported from the various states and territories during the month, as follows:

Arkansas.—Lead Hill, 17; Fort Smith, 8.

California.—Cisco, 23; Blue Lake, 19; Emigrant Gap, 16; Summit, 14; Boca, 7; Tacoma, 6; Towels and Truckee, 5.

Connecticut.—New London, 12.4; North Colebrook, 8.3; Bethel and Wallingford, 6.

Colorado.—Pike's Peak, 7.6; Denver, 7.4.

Dakota.—Richardton, 22; Deadwood, 18.8; Fort Buford, 11.9; Fort Totten, 8.8; Webster, 7.9; Vermillion and Bismarck, 5.5; Yankton, 5.3.

District of Columbia.—Kendall Green, 14; Washington City, 12.5.

Illinois.—Waukegan, 12; Chicago, 7.5; Anna, 7.1; Makanda and Cedarville, 7; Rockford, 6.6; Riley, Geneseo, and Marengo, 6.5; Prairieville, Payson, and Elizabethtown, 6; Sycamore, 5.5.

Indiana.—Laconia, 13; Jeffersonville, 9.5; Princeton, 9; Marengo, 8.6; Connersville, 8.5; Sunman, Columbus, and Butlerville, 8; Blue Lick, 7.8; Guilford, 7.7; Mauzy, 7.1; Degonia, 7; Richmond and Knightstown, 6.5; Vevay, 6.1; Brookville, 6; Spiceland, 5.6; Greencastle, 5.1.

Iowa.—Mauchester, 10; Cresco and Dubuque, 9; Independence, 8; West Union, 7.6; Monticello, 6.3; Cedar Rapids, Muscatine, and Clinton, 6; Oskaloosa, 5.2.

Kansas.—Ninnescah, 14.5; Wellington and Elk Falls, 10; Independence, 9; Concordia, 7.5; Yates Centre and El Dorado, 5.

Kentucky.—Richmond, 14.1; Frankfort, 10.3; Louisville, 7.3.